



OFFICE MEMORANDUM

DATE: September 30, 2002

TO: Region Engineers
Region Delivery Engineers
TSC Managers
Region Construction Engineers
Resident/Project Engineers

FROM: Larry E. Tibbits
Chief Operations Officer

John C. Friend
Engineer of Delivery

SUBJECT: Bureau of Highway Instructional Memorandum 2002-18
C&T Division Procedures Manuals - 2002 Annual Updates
Materials QA Procedures and Michigan Test Methods

The Michigan Test Methods Manual and the Materials Quality Assurance Manual have been revised as indicated. Questions concerning these revisions or the schedule of future revisions may be directed to Judy Ruskowski, Engineer of Specifications, at ruszkowskij@michigan.gov. Information on obtaining these manuals, including all future revisions, should be directed to MDOT's Publications Office at publications@michigan.gov.

Materials Quality Assurance Manual

Part A1 Scope and Objectives of the Quality Assurance Program
Updated the list of C&T publications in section 6. Revised the project materials certification procedure in section 8.

Part C1 In Subsection 1.2 - "by an (*) asterisk" taken out of sentence.
In Subsection 8.1 - "by an (*) asterisk" taken out of sentence.

Part C9 Materials Certification for Concrete Pipe and Related Items
Revised standards references. Added section 3.3 to cover acceptance of precast culvert sections over 20 feet in length.

Part D# D8 - Prestressed Concrete Fabrication Inspection
D10 - Structural Steel Fabrication
D11 - Traffic Sign Support Structure Fabrication
D15 - Tower Lighting Unit Fabrication
Revised the acceptance procedure in each of these sections to provide uniformity in the approval process.

- Part D16 (New) Traffic Signal Mast Arm Pole and Traffic Signal Mast Arm Fabrication Inspection
Established a fabrication inspection and approval process for these items.
- Part E Independent Assurance Test Procedures
Section 7 Revised the Certified Density Technician requirements in the Soil and HMA Density IAT Program
Section 10 Corrected typographical error in HMA mixture IAT Program.
- Part F (QPL) Evaluation procedures for the following materials have been revised or added as indicated.
- (QPL) F811.02i Cold Plastic Tape
Reindexed as F920.01i to coincide with the 2003 Standard Specifications for Construction
- (QPL) F811.02iv Liquid Pavement Marking Materials
Reindexed as F920.01ii to coincide with the 2003 Standard Specifications for Construction
- (QPL) F812.02D2 Temporary Pavement Marking Materials, Tape
Reindexed as F922.04 to coincide with the 2003 Standard Specifications for Construction
- (QPL) F819.03D4 Lightweight Composite Handhole
Reindexed as F918.06 to coincide with the 2003 Standard Specifications for Construction
- (QPL 909.01) Recycled rubber drainage structure cover adjustment ring
Added procedure to evaluate and approve this item for use on MDOT projects.
- (QPL F909.05) Polymer Coated Steel Pipe
Added procedure which was implemented by BOH-IM 2002-12 issued July 1, 2002.
- (QPL F912.09Q) Recycled Rubber/Plastic Types B, BD, T, and TD Offset Blocks for W-Beam Guardrail
Revised to include qualification procedure for recycled plastic guardrail offset blocks. Title and scope revised accordingly.
- Part G Materials Acceptance Criteria - This section has been updated to reflect section changes in the 2003 Standard Specifications for Construction and to revise the basis of acceptance for several materials. Revised to incorporate the terminology changes implemented by BOH-IM 2002-05 issued April 5, 2002.

Michigan Test Methods

- MTM 108 Materials Finer than No.200 Sieve in Mineral Aggregates by Washing
Revised scope of test method to include crushed concrete aggregate and revised method to more closely follow ASTM C 117.
- MTM 201 Determination of Pavement Thickness and Depth of Steel Reinforcement in Concrete Pavement by the Coring Method

Modified the core measuring apparatus and dropped the blank forms from the MTM as these are available electronically.

- MTM 324 Sampling HMA Paving Mixtures Behind the Paver
Revised to incorporate method changes, including the shovel method of sample collection, implemented by BOH-IM 2002-09 issued June 3, 2002. Change the title from Laydown Machine to Paver.
- MTM 404 Moisture-Density Relations of Soils Using a 5.5 Pound Hammer and a 12 inch Drop.
Revised to cite only Method C of AASHTO T99, using a 4-inch mold.
- MTM 413 Moisture-Density Relations of Recycled Mixtures Using a 10 Pound Hammer and an 18 inch Drop.
New MTM modifying Method C of AASHTO T180, using a 4-inch mold.
- MTM 729 Certification of California Type Profilographs
New MTM for certification of profilographs used to determine ride quality for possible incentive payment.
- MTM 730 Certification of Profilometers
New MTM for certification of profilometer used to determine ride quality for possible incentive payment.

Chief Operations Officer

Engineer of Delivery

BOHTS:C/T:JAR:kab

Subject Index: Procedures Manuals

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